

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously Presented) A method for generating a document, comprising:
 inserting one or more placeholders in the document, each placeholder having representative content, the representative content having associated formatting information;
 binding each placeholder to a content source; and
 presenting the placeholders, including presenting the representative content of the placeholders according to the associated formatting information, the representative content of a placeholder being replaceable in a presentation mode by content generated based on the content source bound to the placeholder, the generated content being presented in the presentation mode according to the formatting information associated with the corresponding representative content.
2. (Currently amended) The method of claim 1, further comprising formatting the placeholders.
3. (Original) The method of claim 1, further comprising annotating the placeholders.
4. (Previously Presented) The method of claim 3, wherein executable code is generated from the annotations, the method further comprising:
 executing the executable code to retrieve the content; and
 presenting the retrieved content.
5. (Previously Presented) The method of claim 33, further comprising rendering the document based on the content.
6. (Previously Presented) The method of claim 34, wherein compiling the placeholders further comprises compiling code to obtain content from a database.

7. (Previously Presented) The method of claim 34, further comprising embedding the code as attributes in the placeholder.
8. (Original) The method of claim 1, wherein the placeholder is a mark-up element.
9. (Original) The method of claim 8, wherein the mark-up element is an HTML element.
10. (Original) The method of claim 8, wherein the mark-up element is an XML element
11. (Cancelled)
12. (Previously Presented) The method of claim 34, wherein presenting the generated content according to the formatting information associated with the representative content of a placeholder includes using formatting, styling, or layout of the representative content of the placeholder to format, style, or layout the generated content.
13. (Previously Presented) The method of claim 33, wherein:
generating content for each placeholder based on the corresponding content source includes interpreting the placeholders.
14. (Previously Presented) The method of claim 13, wherein each placeholder includes an annotation describing the content for the placeholder; and
interpreting a placeholder includes reading the annotation that describes the content to replace the placeholder.
15. (Previously Presented) The method of claim 14, further comprising retrieving the content as interpreted by the annotations.
- 16-17. (Cancelled)
18. (Previously presented) The method of claim 33, wherein presenting the content includes rendering the content for viewing.

19-21. (Cancelled)

22. (Previously presented) The method of claim 33, further comprising storing metadata for the placeholder as a comment field in the document.

23. (Previously Presented) The method of claim 1, wherein inserting one or more placeholders includes:

inserting one or more mark-up elements in the document.

24. (Original) The method of claim 23, further comprising updating a markup language document during run-time based on an original layout and content generated on-the-fly.

25. (Previously Presented) The method of claim 24, wherein the generated content replaces the placeholder.

26. (Cancelled)

27. (Previously Presented) A computer program product tangibly embodied in a computer readable medium, the computer program product comprising instructions operable to cause data processing equipment to:

insert one or more placeholders in the document, each placeholder having a representative content, the representative content having associated formatting information;

bind each placeholder to a content source; and

present the placeholders, including presenting the representative content of the placeholders according to the associated formatting information, the representative content of a placeholder being replaceable in a presentation mode by content generated based on the content source bound to the placeholder, the generated content being presented in the presentation mode according to the formatting information associated with the corresponding representative content.

28. (Previously Presented) The computer program product of claim 40, wherein the instructions to generate content for each placeholder based on the corresponding content cause the data processing equipment to:

interpret the placeholders.

29. (Previously Presented) The computer program product of claim 27, wherein the instructions to insert one or more placeholders cause the data processing equipment to:

insert one or more mark-up elements in the document.

30. (Cancelled)

31. (Previously Presented) A system for generating a document, comprising:

a processor;

data storage device coupled to the processor;

means for inserting one or more placeholders in the document, each placeholder having representative content, the representative content having associated formatting information;

means for binding each placeholder to a content source;

means for compiling placeholders into code to generate content for the document based on the content source;

means for presenting the placeholders, including presenting the representative content of the placeholders according to the associated formatting information, the representative content of a placeholder being replaceable in a presentation mode by content generated based on the content source bound to the placeholder, the generated content being presented in the presentation mode according to the formatting information associated with the corresponding representative content.

32. (Previously Presented) The method of claim 35, further comprising:

in the edit mode, modifying the associated formatting information for the placeholders and redisplaying the representative content of the placeholders according to the associated formatting information.

33. (Previously Presented) The method of claim 1, further comprising:

generating content for each placeholder based on the corresponding content source and, if in a presentation mode, presenting the generated content in place of the placeholder, the generated content being presented according to the formatting information associated with the corresponding representative content.

34. (Previously presented) The method of claim 33, wherein generating content includes:

compiling the placeholders into code to generate content for the document based on the content source; and

executing the code to generate the content.

35. (Previously Presented) The method of claim 33, further comprising:

presenting the content in the presentation mode; and

in response to input specifying an edit mode, replacing the generated content with the representative content, and presenting the representative content according to the formatting information.

36. (Previously Presented) The method of claim 1, wherein the formatting information includes format information, styling information or layout information.

37. (Previously Presented) The computer program product of claim 27, further comprising instructions operable to cause the data processing equipment to:

in the edit mode, modify the associated formatting information for the placeholders and redisplay the representative content of the placeholders according to the associated formatting information.

38. (Previously Presented) The computer program product of claim 27, further comprising instructions operable to cause the data processing equipment to:

if in a presentation mode, generate content for each placeholder based on the corresponding content source and present the generated content in place of the placeholder, the generated content being presented according to the formatting information associated with the corresponding representative content.

39. (Previously Presented) The computer program product of claim 38, further comprising instructions operable to cause the data processing equipment to:

compile each placeholder into code to generate content for the document based on the content source;

wherein the instructions to generate the content include instructions to execute the code to generate the content.

40. (Previously Presented) The computer program product of claim 38, further comprising instructions operable to cause the data processing equipment to:

present the generated content in the presentation mode; and

in response to input specifying a reversion to the edit mode, present the representative content according to the formatting information.

41. (Previously Presented) The computer program product of claim 27, further comprising instructions operable to cause the data processing equipment to annotate the placeholders.

42. (Previously Presented) The computer program product of claim 41, further comprising instructions operable to cause the data processing equipment to generate executable code from the annotations to retrieve the generated content.

43. (Previously Presented) The computer program product of claim 27, further comprising instructions operable to cause the data processing equipment to render the page based on the generated content.

44. (Previously Presented) The computer program product of claim 39, further comprising instructions operable to cause the data processing equipment to embed the code as attributes in the placeholder.

45. (Previously Presented) The computer program product of claim 38, wherein the instructions to present the generated content according to the formatting information associated with the representative content of a placeholder cause the data processing equipment to:

use formatting, styling, or layout of the representative content of the placeholder to format, style, or layout the content.

46. (Previously Presented) The computer program product of claim 38, wherein the instructions to present the generated content cause the data processing equipment to render the generated content for viewing.

47. (Previously presented) The system of claim 31, further comprising:

means for executing code in a presentation mode to generate the content of the document;
and

means for presenting the document using the generated content.

48. (Previously presented) The system of claim 47, further comprising:

means for presenting the content in the presentation mode; and

means for presenting the representative content according to the formatting information in response to input specifying a reversion to the edit mode.

49. (New) The computer program product of claim 29, further comprising instructions operable to cause data processing equipment to:

update a markup language document during run-time based on an original layout and content generated on-the-fly.

Applicant : H.S. Roy and Jeff Young
Serial No. : 09/456,888
Filed : December 7, 1999
Page : 9

Attorney's Docket No. 07844-379001

50. (New) The computer program product of claim 49, wherein the instructions to generate content further includes instructions to replace the placeholder with the content generated on-the-fly.